

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/037,460DATE: 11/25/98  
TIME: 13:35:09

INPUT SET: S30053.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

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SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: HASTINGS, ET AL.

(ii) TITLE OF INVENTION: Human Vascular IBP-Like Growth  
Factor

(iii) NUMBER OF SEQUENCES: 17

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
CECCHI, STEWART & OLSTEIN

(B) STREET: 6 BECKER FARM ROAD

(C) CITY: ROSELAND

(D) STATE: NEW JERSEY

(E) COUNTRY: USA

(F) ZIP: 07068

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 INCH DISKETTE

(B) COMPUTER: IBM PS/2

(C) OPERATING SYSTEM: MS-DOS

(D) SOFTWARE: WORD PERFECT 5.1

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/037,460

(B) FILING DATE:

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/464,339

(B) FILING DATE: June 5, 1995

(A) APPLICATION NUMBER: PCT/US94/14388

(B) FILING DATE: 9 DEC 1994

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: MULLINS, J.G.

(B) REGISTRATION NUMBER: 33,073

(C) REFERENCE/DOCKET NUMBER: 325800-332

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 201-994-1700

ENTERED

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/037,460

DATE: 11/25/98  
TIME: 13:35:09

INPUT SET: S30053.raw

47 (B) TELEFAX: 201-994-1744

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 1271 BASE PAIRS

53 (B) TYPE: NUCLEIC ACID

54 (C) STRANDEDNESS: SINGLE

55 (D) TOPOLOGY: LINEAR

56

57 (ii) MOLECULE TYPE: cDNA

58

59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

60

61	CTGCTTCCCA	CCAGCAAAGA	CCACGACTGG	AGAGCCGAGC	CGGAGCAGCT	GGGAAACATG	60
62	AAGAGCGTCT	TGCTGCTGAC	CACGCTCCTC	GTGCCTGCAC	ACCTGGTGGC	CGCCTGGAGC	120
63	AATAATTATG	CGGTGGACTG	CCCTCAACAC	TGTGACAGCA	GTGAGTGCAA	AAGCAGCCCG	180
64	CGCTGCAAGA	GGACAGTGCT	CGACGACTGT	GGCTGCTGCC	GAGTGTGCGC	TGCAGGGCGG	240
65	GGAGAAACTT	GCTACCGCAC	AGTCTCAGGC	ATGGATGGCA	TGAAGTGTGG	CCCGGGGCTG	300
66	AGGTGTCAGC	CTTCTAATGG	GGAGGATCCT	TTTGGTGAAG	AGTTTGGTAT	CTGCAAAGAC	360
67	TGTCCCTACG	GCACCTTCGG	GATGGATTGC	AGAGAGACCT	GCAACTGCCA	GTCAGGCATC	420
68	TGTGACAGGG	GGACGGGAAA	ATGCCTGAAA	TTCCCCTTCT	TCCAATATTC	AGTAACCAAG	480
69	TCTTCCAACA	GATTTGTTTC	TCTCACGGAG	CATGACATGG	CATCTGGAGA	TGGCAATATT	540
70	GTGAGAGAAG	AAGTTGTGAA	AGAGAATGCT	GCCGGGTCTC	CCGTAATGAG	GAAATGGTTA	600
71	AATCCACGCT	GATCCCGGCT	GTGATTTCTG	AGAGAAGGCT	CTATTTTCGT	GAYTGTTCOA	660
72	CACACAGCCA	ACATTTTAGG	AACTTTCTAG	ATTATAGCAT	AAGGACATGT	AATTTTGTAA	720
73	GACCAAAATG	TATGCATGGT	GGATCCAGAA	AACAAAAAGT	AGGATACTTA	CAATCCATAA	780
74	CATCCATATG	ACTGAACACT	TGTATGTGTT	TGTTAAATAT	TCGAATGCAT	GTAATTTTGT	840
75	TAAATGTGTG	TGTATAGTAA	CACTGAAGAA	CTAAAAATGC	AATTTAGGTA	ATCTTACATG	900
76	GAGACAGGTC	AACCAAAGAG	GGAGCTAGGC	AAAGCTGAAG	ACCGCAGTGA	GTCAAATTAG	960
77	TTCTTTTACT	TTGATGTACA	TTAATGTTGG	GATATGGAAT	GAAGACTTAA	GAGCAGGAGA	1020
78	AGATGGGGAG	GGGGTGGGAG	TGGGAAATAA	AATATTTAGC	CCTTCCTTGG	TAGGTAGCTT	1080
79	CTCTAGAATT	TAATTRTGCT	TTTTTTTTTTT	TTTTTTGGGCT	TTGGGAAAAG	TCAAAAATAAA	1140
80	ACAACCAGAA	AACCCCTGAA	GGAAGTAAGA	TGTTTGAAGC	TTATGGAAAT	TTGAGTAACA	1200
81	AACAGCTTTG	ANCTGAGAGC	AATTYCAAAA	GGCTGCTGAT	GTAGCCCCCG	GGTTNCCTNT	1260
82	NTCTNAAGGA	C					1271

83

84

85 (2) INFORMATION FOR SEQ ID NO:2:

86 (i) SEQUENCE CHARACTERISTICS:

87 (A) LENGTH: 184 AMINO ACIDS

88 (B) TYPE: AMINO ACID

89 (C) STRANDEDNESS:

90 (D) TOPOLOGY: LINEAR

91

92 (ii) MOLECULE TYPE: PROTEIN

93

94 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

95

96	Met	Lys	Ser	Val	Leu	Leu	Leu	Thr	Thr	Leu	Leu	Val	Pro	Ala	His
97	-20							-15				-10			
98	Leu	Val	Ala	Ala	Trp	Ser	Asn	Asn	Tyr	Ala	Val	Asp	Cys	Pro	Gln
99	-5						1					5			

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/037,460DATE: 11/25/98  
TIME: 13:35:10

INPUT SET: S30053.raw

100 His Cys Asp Ser Ser Glu Cys Lys Ser Ser Pro Arg Cys Lys Arg  
101 10 15 20  
102 Thr Val Leu Asp Asp Cys Gly Cys Cys Arg Val Cys Ala Ala Gly  
103 25 30 35  
104 Arg Gly Glu Thr Cys Tyr Arg Thr Val Ser Gly Met Asp Gly Met  
105 40 45 50  
106 Lys Cys Gly Pro Gly Leu Arg Cys Gln Pro Ser Asn Gly Glu Asp  
107 55 60 65  
108 Pro Phe Gly Glu Glu Phe Gly Ile Cys Lys Asp Cys Pro Tyr Gly  
109 70 75 80  
110 Thr Phe Gly Met Asp Cys Arg Glu Thr Cys Asn Cys Gln Ser Gly  
111 85 90 95  
112 Ile Cys Asp Arg Gly Thr Gly Lys Cys Leu Lys Phe Pro Phe Phe  
113 100 105 110  
114 Gln Tyr Ser Val Thr Lys Ser Ser Asn Arg Phe Val Ser Leu Thr  
115 115 120 125  
116 Glu His Asp Met Ala Ser Gly Asp Gly Asn Ile Val Arg Glu Glu  
117 130 135 140  
118 Val Val Lys Glu Asn Ala Ala Gly Ser Pro Val Met Arg Lys Trp  
119 145 150 155  
120 Leu Asn Pro Arg  
121 160  
122

## 123 (2) INFORMATION FOR SEQ ID NO:3:

124

## 125 (i) SEQUENCE CHARACTERISTICS:

126 (A) LENGTH: 31 BASE PAIRS

127 (B) TYPE: NUCLEIC ACID

128 (C) STRANDEDNESS: SINGLE

129 (D) TOPOLOGY: LINEAR

130 (ii) MOLECULE TYPE: Oligonucleotide

131

132 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

133

134 CGCAAGCTTA AATAATTATG CGGTGGACTG C

31

135

## 136 (2) INFORMATION FOR SEQ ID NO:4:

137

## 138 (i) SEQUENCE CHARACTERISTICS:

139 (A) LENGTH: 27 BASE PAIRS

140 (B) TYPE: NUCLEIC ACID

141 (C) STRANDEDNESS: SINGLE

142 (D) TOPOLOGY: LINEAR

143 (ii) MOLECULE TYPE: Oligonucleotide

144

145 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

146

147 CGCTCTAGAT CAGCGTGGAT TTAACCA

27

148

## 149 (2) INFORMATION FOR SEQ ID NO:5:

150

## 151 (i) SEQUENCE CHARACTERISTICS:

152 (A) LENGTH: 38 BASE PAIRS

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/037,460DATE: 11/25/98  
TIME: 13:35:11

INPUT SET: S30053.raw

153 (B) TYPE: NUCLEIC ACID  
154 (C) STRANDEDNESS: SINGLE  
155 (D) TOPOLOGY: LINEAR  
156 (ii) MOLECULE TYPE: Oligonucleotide  
157  
158 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
159  
160 CGCAGATCTC CGCCACCATG AAGAGCGTCT TGCTGCTG 38  
161  
162 (2) INFORMATION FOR SEQ ID NO:6:  
163  
164 (i) SEQUENCE CHARACTERISTICS:  
165 (A) LENGTH: 30 BASE PAIRS  
166 (B) TYPE: NUCLEIC ACID  
167 (C) STRANDEDNESS: SINGLE  
168 (D) TOPOLOGY: LINEAR  
169 (ii) MOLECULE TYPE: Oligonucleotide  
170  
171 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
172  
173 CGCAGATCTA GCCTTCTCTC AGAAATCACA 30  
174  
175 (2) INFORMATION FOR SEQ ID NO:7:  
176  
177 (i) SEQUENCE CHARACTERISTICS:  
178 (A) LENGTH: 19 BASE PAIRS  
179 (B) TYPE: NUCLEIC ACID  
180 (C) STRANDEDNESS: SINGLE  
181 (D) TOPOLOGY: LINEAR  
182 (ii) MOLECULE TYPE: Oligonucleotide  
183  
184 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
185  
186 GGGTTTTCCC AGTCACGAC 19  
187  
188 (2) INFORMATION FOR SEQ ID NO:8:  
189  
190 (i) SEQUENCE CHARACTERISTICS:  
191 (A) LENGTH: 18 BASE PAIRS  
192 (B) TYPE: NUCLEIC ACID  
193 (C) STRANDEDNESS: SINGLE  
194 (D) TOPOLOGY: LINEAR  
195 (ii) MOLECULE TYPE: Oligonucleotide  
196  
197 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
198  
199 ATGCTTCCGG CTCGTATG 18  
200  
201 (2) INFORMATION FOR SEQ ID NO:9:  
202  
203 (i) SEQUENCE CHARACTERISTICS:  
204 (A) LENGTH: 19 BASE PAIRS  
205 (B) TYPE: NUCLEIC ACID

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/037,460DATE: 11/25/98  
TIME: 13:35:12

INPUT SET: S30053.raw

206 (C) STRANDEDNESS: SINGLE  
207 (D) TOPOLOGY: LINEAR  
208 (ii) MOLECULE TYPE: Oligonucleotide  
209  
210 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
211  
212 GGGTTTTCCC AGTCACGAC 19  
213  
214 (2) INFORMATION FOR SEQ ID NO:10:  
215  
216 (i) SEQUENCE CHARACTERISTICS:  
217 (A) LENGTH: 18 BASE PAIRS  
218 (B) TYPE: NUCLEIC ACID  
219 (C) STRANDEDNESS: SINGLE  
220 (D) TOPOLOGY: LINEAR  
221  
222 (ii) MOLECULE TYPE: Oligonucleotide  
223  
224 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
225  
226 ATGCTTCCGG CTCGTATG 18  
227  
228 (2) INFORMATION FOR SEQ ID NO:11:  
229 (i) SEQUENCE CHARACTERISTICS:  
230 (A) LENGTH: 90 AMINO ACIDS  
231 (B) TYPE: AMINO ACID  
232 (C) STRANDEDNESS:  
233 (D) TOPOLOGY: LINEAR  
234  
235 (ii) MOLECULE TYPE: PROTEIN  
236  
237 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
238  
239 Met Gly Ser Ala Gly Ala Arg Pro Ala Leu Ala Ala Ala Leu Leu  
240 5 10 15  
241 Cys Leu Ala Arg Leu Ala Leu Gly Ser Pro Cys Pro Ala Val Cys  
242 20 25 30  
243 Gln Cys Pro Ala Ala Ala Pro Gln Cys Ala Pro Gly Val Gly Leu  
244 35 40 45  
245 Val Pro Asp Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu  
246 50 55 60  
247 Asn Glu Asp Cys Ser Arg Thr Gln Pro Cys Asp His Thr Lys Gly  
248 65 70 75  
249 Leu Glu Cys Asn Arg Leu Val Asn Asp Ile His Lys Phe Arg Asp  
250 80 85 90  
251  
252 (2) INFORMATION FOR SEQ ID NO:12:  
253 (i) SEQUENCE CHARACTERISTICS:  
254 (A) LENGTH: 90 AMINO ACIDS  
255 (B) TYPE: AMINO ACID  
256 (C) STRANDEDNESS:  
257 (D) TOPOLOGY: LINEAR  
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PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/037,460**

DATE: 11/25/98  
TIME: 13:35:12

***INPUT SET: S30053.raw***

Line

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Original Text